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**D4003-11****Job Sheet 195851****Part No:** D4003-11**Job Qty:** 4 pcs**Part Name:** Vent Pipe - Tank**Part Weight:** 0 lbs**Status:** New**Priority:** Medium**Job Created:** 5/31/19**Job Tracking No:****Due Date:** 6/17/19**Created By:** Marie Lajeunesse**Type:** SOLD**Description:****Note:** DWG REV A IPP rev A 10.01.12 new issue prelim EC verified by:DD**Ship Via:****Bill of Materials****Job Routing**

| Op No | Operation     | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier      |           | Sign-off    |
|-------|---------------|-------|------------|----------|-----------|---------|--------------------------|-----------|-------------|
|       |               |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier    | Lead Time |             |
| 100   | Small Fab - 1 | 4 pcs | 6/17/19    |          | 0.30      | 2.44    | Small Fab - 1            |           | JUL 17 2019 |
|       |               |       |            |          |           |         | Small Fab - 2            |           |             |
|       |               |       |            |          |           |         | Small Fab - 3            |           |             |
|       |               |       |            |          |           |         | Small Fab - 4            |           |             |
|       |               |       |            |          |           |         | Small Fab - 5            |           |             |
|       |               |       |            |          |           |         | Small Fab - 6            |           |             |
|       |               |       |            |          |           |         | Small Fab - 7            |           |             |
| 110   | QC 5          | 4 pcs | 6/17/19    |          | 0.00      | 0.00    | QC 5 - 10                |           | JUL 18 2019 |
|       |               |       |            |          |           |         | QC 5 - 12                |           |             |
|       |               |       |            |          |           |         | QC 5 - 17                |           |             |
|       |               |       |            |          |           |         | QC 5 - 18                |           |             |
|       |               |       |            |          |           |         | QC 5 - 19                |           |             |
|       |               |       |            |          |           |         | QC 5 - 22                |           |             |
|       |               |       |            |          |           |         | QC 5 - 24                |           |             |
|       |               |       |            |          |           |         | QC 5 - 3                 |           |             |
|       |               |       |            |          |           |         | QC 5 - 43                |           |             |
|       |               |       |            |          |           |         | QC 5 - 49                |           |             |
|       |               |       |            |          |           |         | QC 5 - 51                |           |             |
|       |               |       |            |          |           |         | QC 5 - 58                |           |             |
|       |               |       |            |          |           |         | QC 5 - 68                |           |             |
|       |               |       |            |          |           |         | QC 5 - 9                 |           |             |
|       |               |       |            |          |           |         | QC 5 - 50                |           |             |
|       |               |       |            |          |           |         | QC 5 - 30                |           |             |
|       |               |       |            |          |           |         | QC 5 - 40                |           |             |
|       |               |       |            |          |           |         | Handfinish - 1 - 1 - B4B |           |             |
|       |               |       |            |          |           |         | Handfinish - 1 - 2 - B4B |           |             |
|       |               |       |            |          |           |         | Handfinish - 1 - 3 - B4B |           |             |
|       |               |       |            |          |           |         | Handfinish - 1 - 4 - B4B |           |             |
|       |               |       |            |          |           |         | Handfinish - 1 - 5 - B4B |           |             |
|       |               |       |            |          |           |         | Handfinish - 1 - 6 - B4B |           |             |
|       |               |       |            |          |           |         | Handfinish - 1 - 7 - B4B |           |             |

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|                                 |       |         |           |                           |  |
|---------------------------------|-------|---------|-----------|---------------------------|--|
|                                 |       |         |           | Handfinish - 1 - 8 - B4B  |  |
|                                 |       |         |           | Handfinish - 1 - 9 - B4B  |  |
|                                 |       |         |           | Handfinish - 1 - 10 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 11 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 12 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 13 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 14 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 15 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 16 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 17 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 18 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 19 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 20 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 21 - B4B |  |
|                                 |       |         |           | Handfinish - 1 - 22 - B4B |  |
| 160 QC 3                        | 4 pcs | 6/17/19 | 0.00 0.00 | QC 3 - 10                 |  |
|                                 |       |         |           | QC 3 - 13                 |  |
|                                 |       |         |           | QC 3 - 15                 |  |
|                                 |       |         |           | QC 3 - 17                 |  |
|                                 |       |         |           | QC 3 - 18                 |  |
|                                 |       |         |           | QC 3 - 2                  |  |
|                                 |       |         |           | QC 3 - 28                 |  |
|                                 |       |         |           | QC 3 - 3                  |  |
|                                 |       |         |           | QC 3 - 30                 |  |
|                                 |       |         |           | QC 3 - 34                 |  |
|                                 |       |         |           | QC 3 - 36                 |  |
|                                 |       |         |           | QC 3 - 41                 |  |
|                                 |       |         |           | QC 3 - 51                 |  |
|                                 |       |         |           | QC 3 - 58                 |  |
|                                 |       |         |           | QC 3 - 59                 |  |
|                                 |       |         |           | QC 3 - 68                 |  |
|                                 |       |         |           | QC 3 - 9                  |  |
|                                 |       |         |           | QC 3 - 40                 |  |
|                                 |       |         |           | QC 3 - 19                 |  |
|                                 |       |         |           | QC 3 - 43                 |  |
|                                 |       |         |           | QC 3 - 24                 |  |
| 170 Packaging 3-1 - Stock - B4B | 4 pcs | 6/17/19 | 0.00 0.00 | Packaging 3 - 1 - B4B     |  |
|                                 |       |         |           | Packaging 3 - 2 - B4B     |  |
|                                 |       |         |           | Packaging 3 - 3 - B4B     |  |
|                                 |       |         |           | Packaging 3 - 4 - B4B     |  |
|                                 |       |         |           | Packaging 3 - 5 - B4B     |  |
|                                 |       |         |           | Packaging 3 - 6 - B4B     |  |
|                                 |       |         |           | Packaging 3 - 7 - B4B     |  |
|                                 |       |         |           | Packaging 3 - 8 - B4B     |  |
|                                 |       |         |           | Packaging 3 - 9 - B4B     |  |
|                                 |       |         |           | Packaging 3 - 10 - B4B    |  |
|                                 |       |         |           | Packaging 3 - 11 - B4B    |  |
|                                 |       |         |           | Packaging 3 - 12 - B4B    |  |

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|                                                                                                                                                                                                                                                                                  |                                |                     |                   |                        |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------|-------------------|------------------------|-----------------|
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 13 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 14 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 15 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 16 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 17 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 18 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 19 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 20 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 21 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 22 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 23 - B4B | PC 57241        |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 24 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 25 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 26 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 27 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 28 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 29 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 30 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 31 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 32 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 33 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 34 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 35 - B4B |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | Packaging 3 - 36 - B4B |                 |
| 180 QC 21 - SA                                                                                                                                                                                                                                                                   | 4<br>pcs                       | 6/17/19             | 0.00 0.00         | QC 21 - SA - 21        |                 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | QC 21 - SA - 70        | DAS JUL 19 2019 |
|                                                                                                                                                                                                                                                                                  |                                |                     |                   | QC 21 - SA - 53        | 21<br>2-22      |
| Part Op 110 - (QC5- Inspect part completeness to step on W/O)<br>Descriptions: 150 - (Chemical Conversion Coat per QSI005 4.1)<br>160 - (QC3- Inspect Part Finish)<br>170 - (Identify as per dwg & Stock Location: _____)<br>180 - (QC21- Final Inspection - Work Order Release) |                                |                     |                   |                        |                 |
| <b>Job BOM</b>                                                                                                                                                                                                                                                                   |                                |                     |                   |                        |                 |
| <b>Part / Item</b>                                                                                                                                                                                                                                                               | <b>Component Name</b>          | <b>Quantity</b>     | <b>Operation</b>  | <b>Container</b>       |                 |
| M6061T6T0.500W.035                                                                                                                                                                                                                                                               | 6061-T6 Round Tube .500 X.035W | 7.8800 ft (1.97 ea) | 100-Small Fab - 1 | S178548                |                 |
| <b>Job Allocations</b>                                                                                                                                                                                                                                                           |                                |                     |                   |                        |                 |
| <b>Operation</b>                                                                                                                                                                                                                                                                 | <b>Component Part</b>          | <b>Required</b>     | <b>Inventory</b>  | <b>Allocated</b>       |                 |
| 100-Small Fab - 1                                                                                                                                                                                                                                                                | M6061T6T0.500W.035             | 8                   | 122               | 0                      |                 |
| <b>Part Specifications</b>                                                                                                                                                                                                                                                       |                                |                     |                   |                        |                 |
| Specifications could not be found.                                                                                                                                                                                                                                               |                                |                     |                   |                        |                 |

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Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                   |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Operator <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Preservation <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Human Factors <input type="checkbox"/> </div> <div> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                        |  |



**Container No: S198572**



**Part: D4003 - 11**

**Job No: 195851**

**Serial No/Batch: S198572**

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions: Various STC's**

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**Date: 07/17/19**